

Delta Nutrient Stakeholder & Technical Advisory Group Delta Regional Monitoring Program Nutrients Subcommittee

July 20, 9:30 -11:30 am

Meeting Summary

1	Introductions and Announcements No announcements were made. Participants agreed to change the meeting agenda to discuss the Water Board meeting after the Science Action Plan/short-term planning.
2	July 2018 Delta Nutrient Research Plan Janis Cooke (CVRWQCB) described additions to the NRP since the May STAG meeting. Following direction of Water Board management, NRP Section 5 was expanded with more details about staff's initiatives in the next few years. A new Table 5.3 summarizes these actions and target dates. Janis described each of the Water Board's intended actions and the linkage to priorities being supported (e.g., completion of Water Board's 2014 Delta Strategic Work Plan; priorities from the STAG's topic and question-setting exercise from the May meeting; white paper and knowledge gap report recommendation; and HABs as a region-wide priority). See meeting presentation for more details. STAG comments on the July 2018 NRP: <ul style="list-style-type: none"> • There are connections and feed-backs between the 3 categories of activities (research and modeling; thresholds & policy options; and management options/feasibility). It would be helpful to develop a flow chart describing steps and connection points between the activities in each category and the process of iteration as work progresses. • The monitoring and special study recommendations are focused on particular issues, but it is important to remember data collection must be holistic. • The STAG would like to be more involved in the Water Board's South Delta projects (HABs and dissolved oxygen assessments).
3	Planning for Delta NRP implementation and Science Action Plan The outline for the Science Action Plan had been revised after the May meeting. The revised outline was distributed prior to the July STAG meeting and is posted on the Water Board's STAG meeting webpage. STAG members commented that they would like to be involved and have input into the small group discussions. The small groups were intended to involve technical experts in designing studies and drafting sections of the plan. Janis and Phil Trowbridge (SFEI) agreed to change the outline and plans for the small groups to encourage involvement by those from the STAG who are interested. Dylan Stern (Delta Science Program) described the upcoming joint proposal solicitation from the Delta Science Program and Dept. Fish and Wildlife. Some STAG members are interested in meeting soon to explore options for a proposal(s) that would support Delta NRP research.
4	August Central Valley Water Board Meeting Update Janis announced that on 2 August, the Central Valley Water Board will consider a Resolution approving the Delta Nutrient Research Plan and directing staff to implement it. STAG members are welcome to comment to the Board following the staff presentation.
5	Project Updates <ul style="list-style-type: none"> • The IEP Water Quality and Nutrients Project Work Team (PWT) (contacts: Sarah Lesmeister/DWR and Janis Cooke/Regional Board) had its first meeting on 19 July. The PWT will be meeting approximately every 6 months with the next meeting anticipated early Dec. or Jan. The PWT discussed a proposal for its first project, an analysis of overlaps and gaps in monitoring nutrients and other parameters (temperature, EC, and turbidity). The

	<p>PWT discussed challenges of this type of project and existing efforts. John Franco Saraceno (DWR) anticipates working with others to revise the proposal and submit to the IEP Coordinators Team later this year.</p> <ul style="list-style-type: none"> • USGS Updates (contact Tamara Kraus) <ul style="list-style-type: none"> ○ Delta Regional Monitoring Program high frequency data collection cruises – the Spring cruises were successfully completed in May. The summer cruise will happen July 24-26. ○ High frequency sampling cruises also underway for the Operation Baseline initiative. These are: <ul style="list-style-type: none"> ▪ Water Residence Times and Biogeochemical Rates (Northern Delta: Rio Vista to Toe Drain) ▪ Wetland Rates and links to the food web (3 wetlands: Wildlands, French Island, First Mallard) ▪ Phytoplankton taxonomy in relation to the nutrient field (this is a ~4-week deployment of instruments at our Grizzly Bay station) ○ Collection of nutrient data before and after DWR's flow alteration experiments at the Suisun Marsh salinity gates and Yolo Bypass pulse flow. <ul style="list-style-type: none"> ○ Collecting nutrient data for the DWR-led aquatic vegetation study under the Delta Smelt Resiliency Strategy. The study involves assessing effects of aquatic weeds with and without chemical spray treatment in French Island and Little Hastings Tract. https://ca.water.usgs.gov/projects/aquatic-vegetation-water-quality-bay-delta.html • The Bay Delta Science Conference will have a session on Operation Baseline (contact Dylan Stern) • Central Valley Clean Water Association's Freshwater Mussel Project (contact Debbie Webster). To support development of a California-specific water quality objective for ammonia, CVCWA is conducting a project to culture California native freshwater mussels and test toxicity. Culture of early life stage mussels is difficult but is progressing for the 2nd species. Also, the protocol for collection of e-DNA in fresh water to test for mussel presence has been submitted for journal publication.
Item 6	<p>Next Meetings and Wrap Up</p> <p>Water Board staff will send a doodle poll prior to setting organizational meetings for a Prop 1/ Delta Science Program proposal.</p> <p>Fall and winter joint meetings of the STAG and Delta Nutrients Subcommittee are proposed to continue integration of these groups. Meetings would be timed to facilitate development of nutrient proposals for funding by the Delta RMP for FY 19/20. Associated meetings included in the list in italics.</p> <p>Aug – TBD Prop 1 and Delta Science Program proposal planning Sep 18 - Science Action Plan and near-term planning, Prop 1 updates <i>Oct - Chlorophyll-a Sensor Intercalibration Work Group</i> Nov – STAG and Delta RMP Project planning continued <i>Dec/Jan - Water Quality & Nutrients Project Work Team Mtng #2</i> <i>Jan 2019 - Delta-Suisun Modeling Progress Meeting</i> Feb 2019 - Discuss Delta RMP FY19/20 nutrient proposals Mar/Apr 2019 - Discuss Delta RMP FY19/20 nutrient proposals</p>

Attendees

Staff	Agency
Christine Joab	Central Valley Regional Water Board
Janis Cooke	Central Valley Regional Water Board
Robert McCarthy	Central Valley Regional Water Board

Stakeholder and Technical Advisory Group (STAG) - Interest Group Members:

Attendance	STAG members	Agency	Representing	Position
	Terrie Mitchell	Sacramento Regional County Sanitation District	Large POTWs	Primary
Present	Lisa Thompson	Sacramento Regional County Sanitation District	Large POTWs	Alternate
Present	Debbie Webster	Central Valley Clean Water Ass.	Small POTWs	Primary
	VACANT		Small POTWs	Alternate
	Dalia Fadl	City of Sacramento	MS4	Primary
	VACANT	City of Sacramento	MS4	Alternate
Present (P)	Renee Pinel	Western Plant Health Assoc.	Irrigated Agriculture	Primary
	VACANT		Irrigated Agriculture	Alternate
	Amrith Gunasekara	CA Dept. Food and Agriculture	Agriculture Agencies	Primary
	Mark Cady	CA Dept. Food and Agriculture	Agriculture Agencies	Alternate
	Kirk Wilbur	California Cattlemen	CAFOs	Primary
	VACANT		CAFOs	Alternate
	Lynda Smith	Metropolitan Water District S. CA	Water Supply	Primary
	VACANT		Water Supply	Alternate
	VACANT		Drinking Water	Primary
Present (P)	Rachel Pisor	CA Dept. Water Resources	Drinking Water	Alternate
	Paul Bedore	Port of Stockton	Waterways	Primary
	Trish Gilbert	CA State Parks – Boating & Waterways	Waterways	Alternate
	Stephen Louie	CA Dept. Fish and Wildlife	Resource Mgmt	Primary
	Brooke Jacobs	CA Dept. Fish and Wildlife	Resource Mgmt	Alternate
	Eddie Lucchesi	Mosquito & Vector Control Ass.	Mosquito Abatement	Primary
	VACANT		Mosquito Abatement	Alternate
	Jon Rosenfield	The Bay Institute	Environmental NGOs	Primary
Present	Lisa Hunt	The Water Institute	Environmental NGOs	Alternate

A blank under Attendance category indicates individual was absent from the meeting.

An "A" next to "Present" indicates the STAG member was present as a non-voting alternate and a (P) indicates the STAG member participated remotely via WebEx/phone.

Other Interested Parties:	
<i>Other participants</i>	<i>Agency</i>
Tom Grovhoug	Larry Walker Associates
Lisa Moretti (P)	U.C. Davis
Tim Mussen	Sacramento Regional County Sanitation District
Dylan Stern (P)	Delta Stewardship Council
Mike Troughon	Larry Walker Associates
Phil Trowbridge (P)	San Francisco Estuary Institute/Aquatic Science Center
Others unidentified (P)	

(P) indicates participated remotely via Webex/phone

Record of Decision for the Delta Nutrient Research Plan STAG

Number	Date	Decision	Type	Yes	No	Abstain
2015-1	07/13/2015	The STAG adopted the Charter Document – Process to Develop a Delta Nutrient Management Strategy as final.	Consensus			
2015-2	07/13/2015	The STAG adopted the Governance Principles and Ground Rules document as final.	Consensus			
2015-3	07/13/2015	The STAG accepted the Cyanobacteria White Paper <i>“Factors affecting Growth of Cyanobacteria With Special Emphasis on the Sacramento-San Joaquin Delta”</i> as a final work product from the Cyanobacteria Science Work Group.	Consensus			
2015-4	09/23/2015	The STAG agreed to form a ranking subcommittee that would develop a written evaluation process. The STAG agreed that this evaluation process would be used to rank the research recommendations.	Consensus			
2015-5	09/23/2015	The STAG approved the formation of a joint planning subcommittee with the Bay Area Nutrient Management Steering Committee to assist in organizing the “nutrient forms and ratios” workshop.	Consensus			
2015-5	11/03/2015	The STAG accepted the minor revisions to the Governance Principles and Ground Rules Document and accepted the entire document as final.		8	0	0
2015-6	11/03/2015	The STAG accepted the Macrophyte White Paper as final.		8	0	0
2015-7	11/03/2015	The STAG accepted the Cyanobacteria Knowledge Gaps document as final, with the understanding that Tim Mussen and Paul Bedore would submit a		8	0	0

		revision on Paul's comment to Regional Board staff by November 13.				
2015-8	12/15/2015	The STAG agreed to revise the name, charge, and process for the ammonium (phytoplankton) work group and to enter into discussions with the Delta Science Program on options for cosponsoring the work group.	Consensus			
2015-9	12/15/2015	The STAG accepted the revised language in the Cyanobacteria Knowledge Gaps document and finalized the entire document.	Consensus			
2016-1	03/01/2016	The STAG approved by consensus the December 15, 2015 Meeting Summary.		7	0	0
2016-2	03/01/2016	The STAG conditionally accepted the draft Charge to the White Paper Author and Panel with the understanding that the edits discussed at the meeting will be incorporated. The STAG also approved that Regional Board staff could begin contacting white paper author candidates.		7	0	0
2016-3	03/01/2016	The STAG approved to begin the process of selecting a white paper author and to involve the author in assisting the planning workgroup and STAG in finalizing the workshop structure and process, and in selecting the expert panel.		7	0	0
2016-3	03/01/2016	The STAG accepted the Modeling White Paper as final.		7	0	0
2016-4	04/11/2016	The STAG approved by consensus the March 01, 2016 Meeting Summary	Consensus			
2016-5	06/27/2016	The STAG approved by consensus the April 11, 2016 Meeting Summary.	Consensus			

2016-6	06/27/2016	The STAG accepted the revised language in the Macrophyte Knowledge Gaps document and finalized the document.		9	0	0
2016-7	12/16/2016	The STAG approved by consensus the November 07, 2016 Meeting Summary.	Consensus			
2017-1	03/24/2017	The STAG approved by consensus the December 16, 2016 Meeting Summary	Consensus			
2017-2	03/24/2017	The STAG approved by consensus the research prioritization approach developed by the workgroup, pending minor revisions agreed during the STAG meeting	Consensus			
2017-3	06/12/17	The STAG accepted the Nutrient and Phytoplankton White Paper as final		8	0	0
2017-4	08/07/17	The STAG accepted the Drinking Water White Paper as final (email vote).		6	0	
2018-1	01/18/18	The STAG approved the June 12, 2017 Meeting Summary.	Consensus			
2018-2	03/19/18	The STAG approved the January 18, 2018 meeting summary.	Consensus			
2018-3	07/20/2018	The STAG accepted the March and May meeting summaries	Consensus			